

USING STRANDED COPPER WIRE

TRAFFIC FLOW

DETAIL "D"

6' x 3' LOOP (TYP)

DETAIL "G"

DETAIL "A"

LANE STRIPE

DETAIL "D"

DETAIL "G"

ROAD EDGE

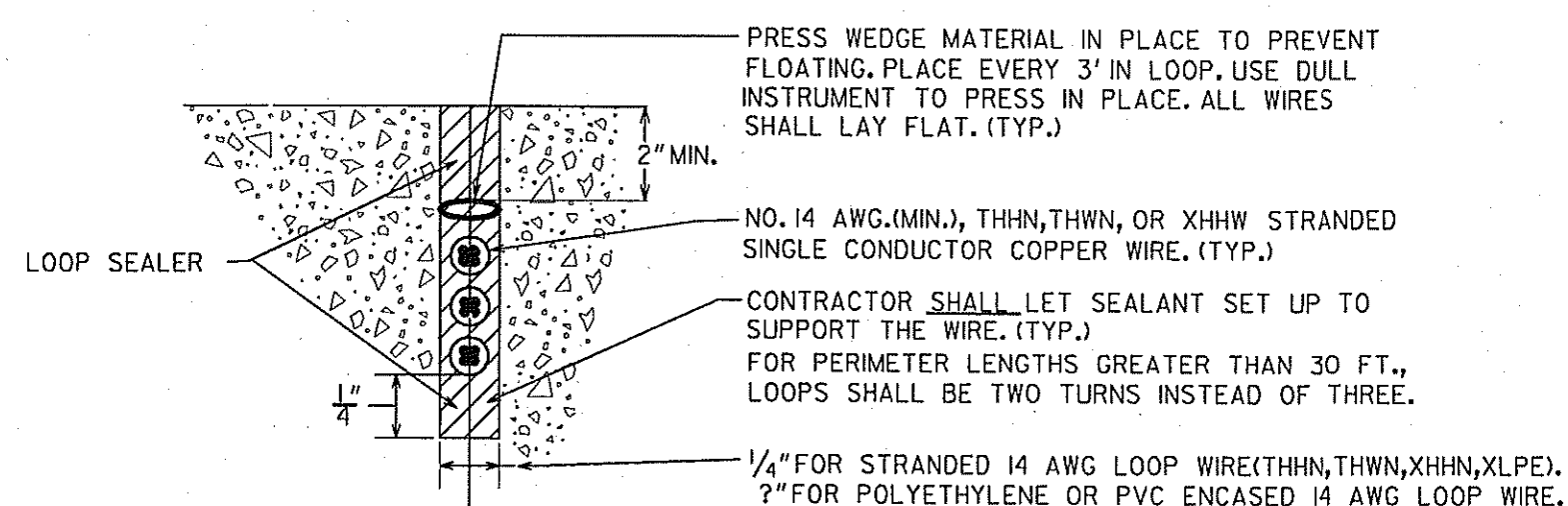
LEAD-IN WIRE

TRAFFIC FLOW

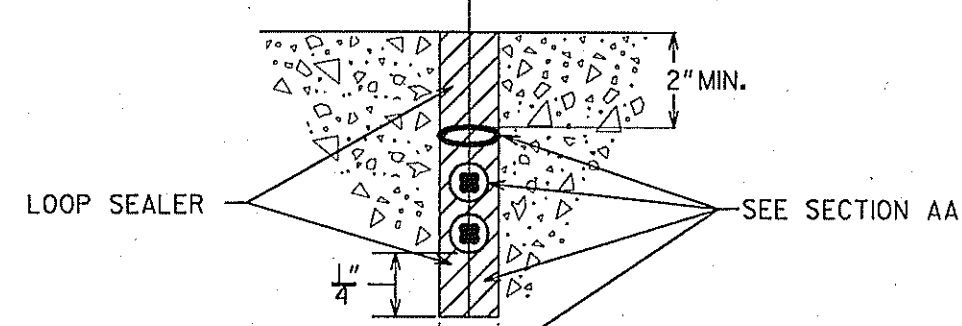
NOTE:
ALL 14 AWG COPPER WIRE
MUST BE FULLY ENCASED
IN SEALANT.

NOTE:
ALL DETECTOR LOOPS
SHALL BE WOUND IN
OPPOSITE DIRECTIONS.

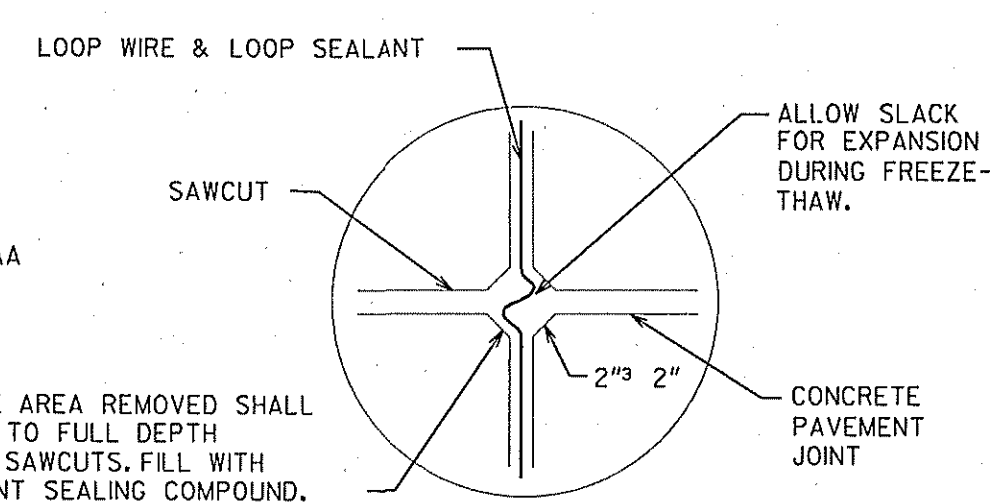
WILL REQUIRE AN ADDITIONAL
SAWCUT IF USING 2 AMPLIFIERS
(MIN. 6" SEPARATION).



SECTION AA

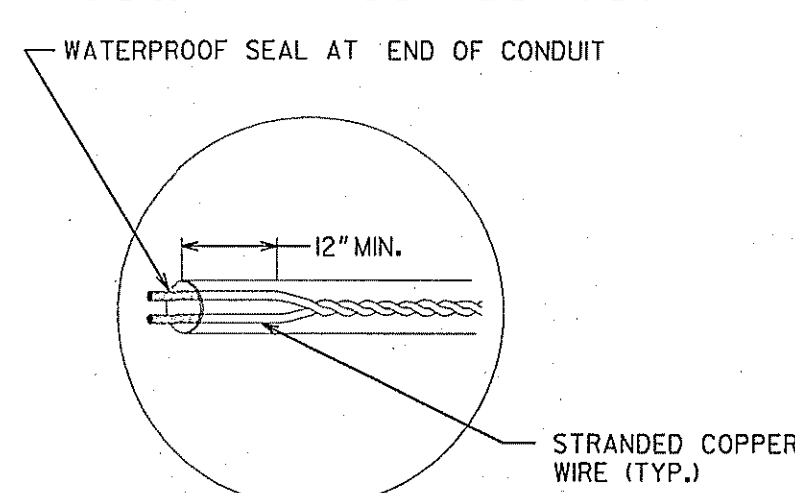


SECTION BB



DETAIL "A"

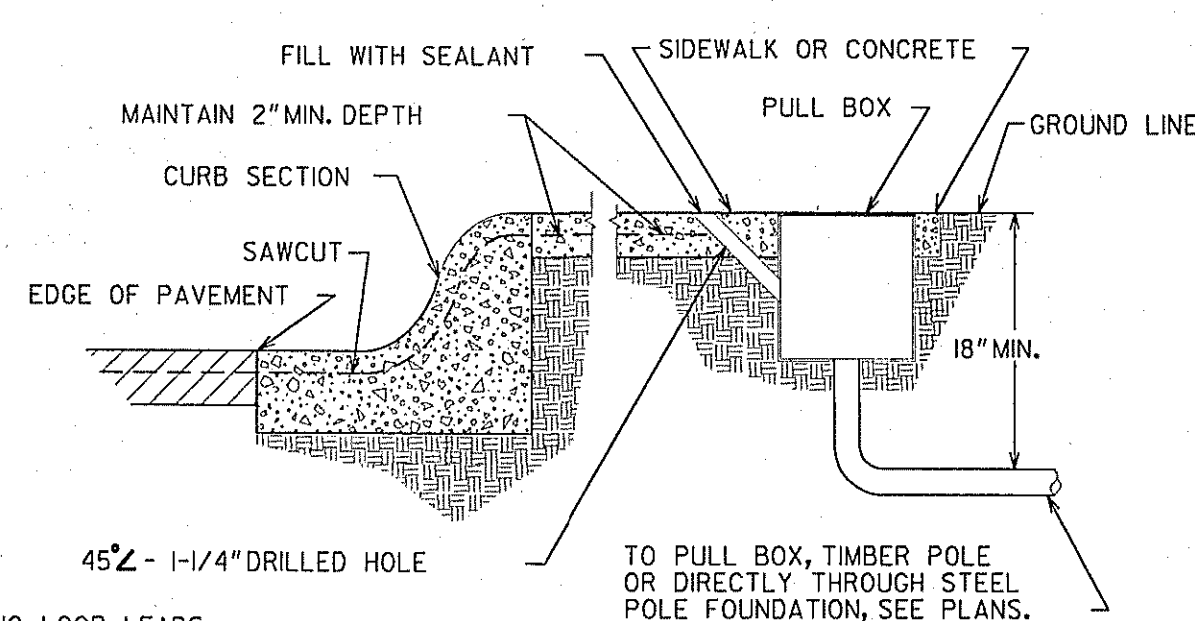
NOTE: USE FOR CONCRETE PAVEMENT ONLY.



DETAIL "E"

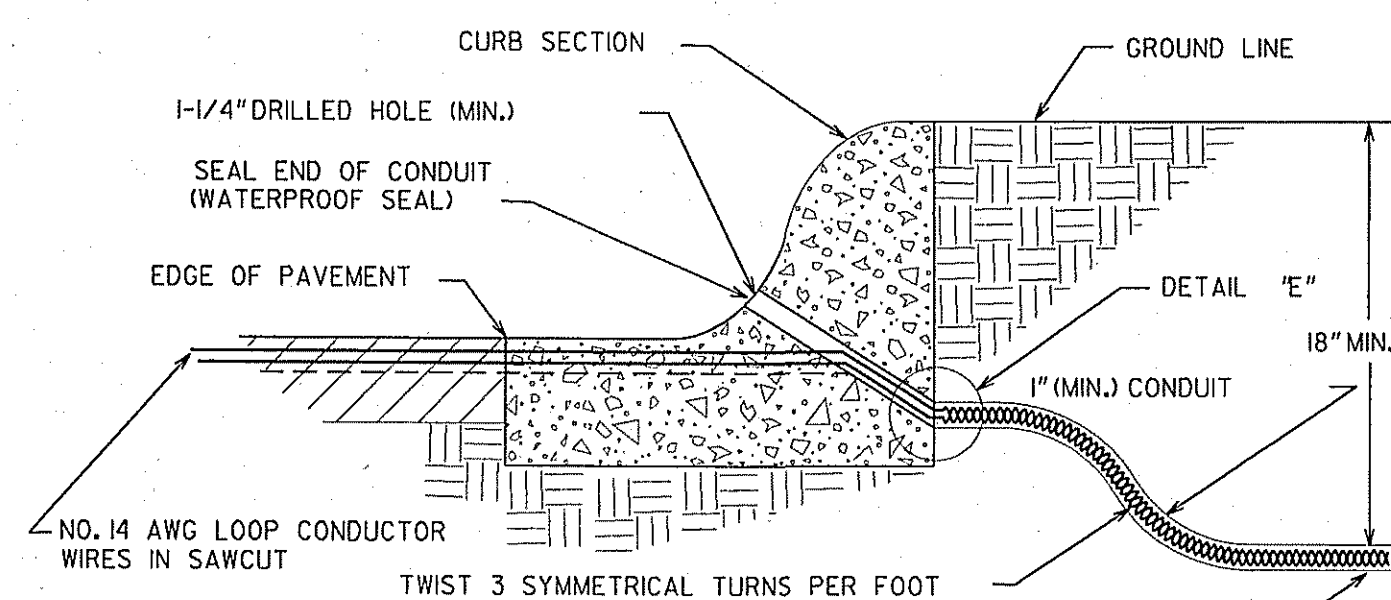
TYPICAL CURB DETAIL

(WITH SIDEWALK)



TYPICAL CURB DETAIL

(WITHOUT SIDEWALK)



NOTE: NO LOOP LEADS
THROUGH TURNING RADIUS

Diagram illustrating a cross-section of a three-lane highway. The diagram shows three lanes with a total width of 6'. The lanes are labeled with their respective widths: 2 WIRE, 4 WIRE, and 2 WIRE. The length of the lanes is indicated as "LENGTH VARIES (SEE PLANS)". The diagram also shows "TRAFFIC" flow indicated by an arrow pointing right, and "DETAIL 'D'", "DETAIL 'F'", and "DETAIL 'G'" callouts pointing to specific features. A note at the bottom states "NO SCALE".

LOOP WIRE CONFIGURATION

THE DOUBLE LAYER CONFIGURATION (2-4-2) SHOWN IS A MINIMUM DESIGN FOR NORMAL INSTALLATIONS WHEN REQUIRED BY THE PLANS.

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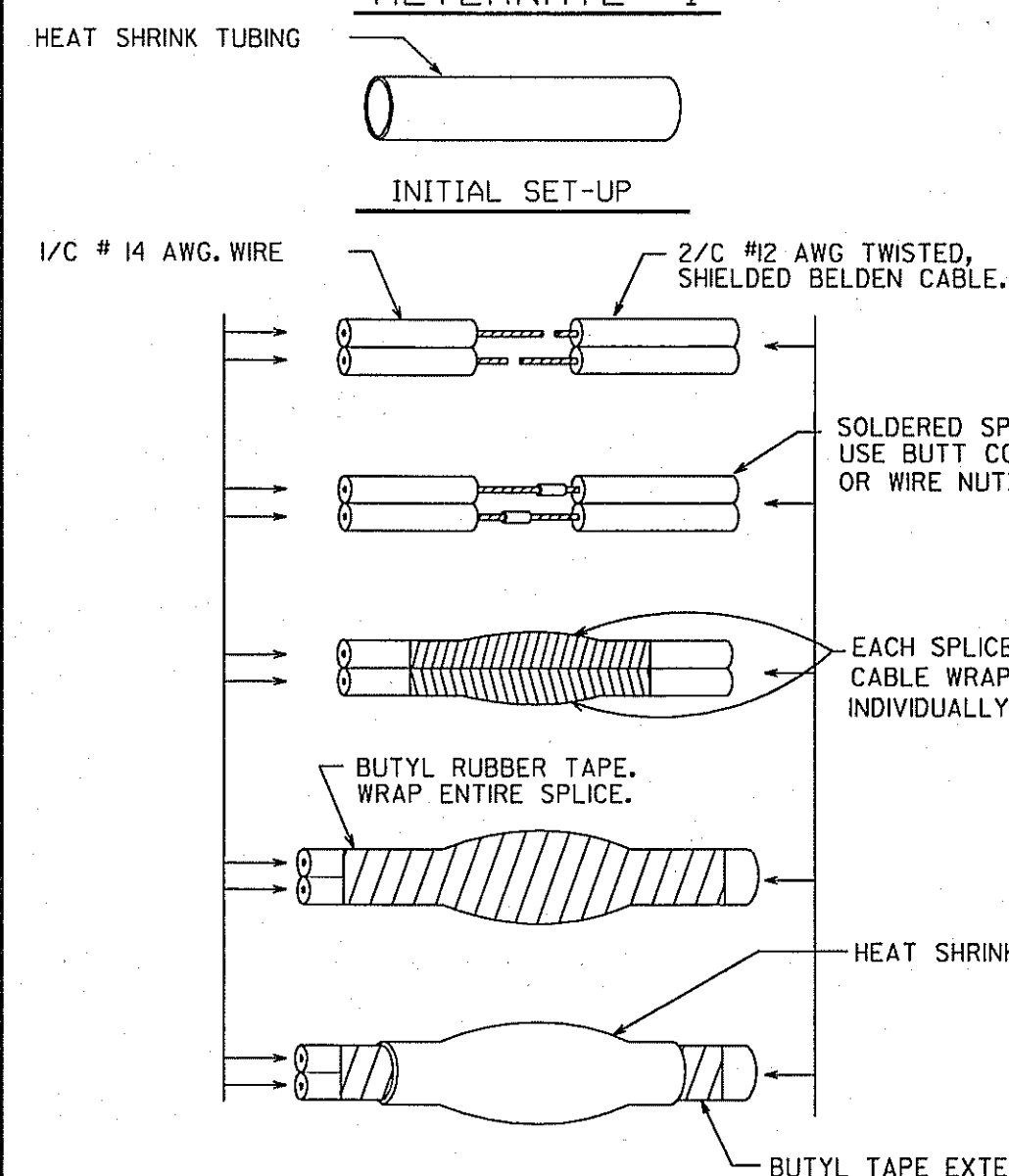
Diagram illustrating the installation of a multi-pair shielded loop lead-in cable. The cable is shown entering a pull box cover from the top, passing through a conduit, and then being connected to a controller. The diagram includes the following labels and dimensions:

- MULTI-PAIR SHIELDED LOOP (PRE-TWISTED) LEAD-IN CABLE.
- "TRAFFIC SIGNAL" ON TOP OF PULL BOX COVER
- DO NOT GROUND LOOP WIRE IN PULL BOX.
- ENDS OF CONDUIT SHALL BE SEALED AND BE WATERPROOF (TYP.).
- THE LENGTH OF SLACK FOR THE LOOP LEAD-INS SHALL PROVIDE FOR MAKING THE SPLICES! ABOVE GROUND LEVEL.
- HOLD DOWN BOLTS WITH BRASS WASHERS & NUTS. NUTS SHALL BE RECESSED BELOW TOP OF COVER.
- 10" EP OR 3" BACK OF CURB
- LOOP LEAD-INS (TWISTED 3 SYMMETRICAL TURNS PER FOOT)
- COARSE GRAVEL
- 6" MIN. (TYP)
- 12" MIN.
- 18" MIN.
- SHIELDED CABLE
- TO CONTROLLER
- 2" (MIN.) CONDUIT
- TO LOOP CUTS

SPLICE DETAILS

ALTERNATE #1

HEAT SHRINK TUBING



NOTE:
FINISHED SPLICE MUST BE WATERPROOF.

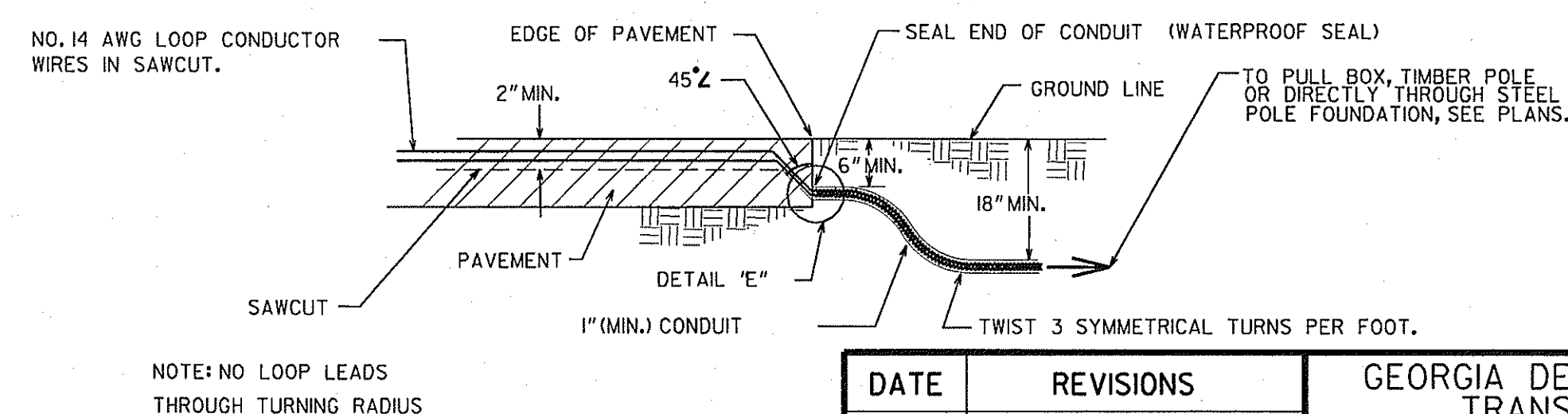
ALTERNATE #2

Diagram illustrating the finished splice for a multipair loop lead-in cable. The splice is shown in two views: a side view and a top view.

Labels:

- THIN IN 7" O.D. TUBING
- SEAL TUBING WITH LIQUID RUBBER
- 1/4" #14 AWG
- MULTIPAIR LOOP LEAD-IN CABLE.
- 1"
- 1"
- 1-1/4"
- SIMILAR SPLICES
- TWIST WIRE, SOLDER AND APPLY WIRE CAPS.
- TIE TOGETHER WITH PLASTIC OR NYLON STRING.
- SEAL CABLE END, COVER SHIELDING, GROUND WIRE WITH LIQUID RUBBER AND TAPE.
- FLEXIBLE EPOXY (LOOP SEALANT)
- FINISHED SPLICE

DETAIL WHERE NO CURB EXISTS



NOTE: NO LOOP LEADS
THROUGH TURNING RADIUS

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN LOOP DETECTOR INSTALLATION DETAIL NO SCALE
1/30/04	ADDED DETAIL "F"	
4/12/04	ADDED DETAIL "G"	
7/27/04	ADDED METRIC USAGE NOTE	
		DECEMBER 1998

When these details are incorporated into plans and/or projects that are being prepared or revised, metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1"=25mm, 4"=100mm, and 12" or 1' =300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.